

PROJECT DESCRIPTION

I. General

This project involves the modification of an existing traffic control signal in conjunction with geometric improvements at the intersection of Hungerford Drive (MD 355) and East Middle Lane in Montgomery County, Maryland. MD 355 is assumed to run in a North-South direction.

II. Intersection Operation

There is no change to the existing phasing operation.

III. Special Notes

1. Maintenance of traffic will be handled by the Contractor utilizing the following standard plates for traffic control: 104.00-13, 104.00-19, 104.00-21, 104.00-24, 104.17-02, 104.38-02, 104.4-02, 104.41-02, 104.48-02, 104.49-02, 104.81-01.

2. The following contact persons for District #3 are as follows:

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone # (410) 781-7630

Mr. Lee Starkloff
District Engineer-Traffic
Phone # (301) 513-7358

Mr. Raleigh Madley
Asst. District Engineer-Maintenance
Phone # (301) 513-7304

Mr. Augustine Rebish
Asst. District Engineer-Utility
Phone # (301) 513-7356

EQUIPMENT LIST

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

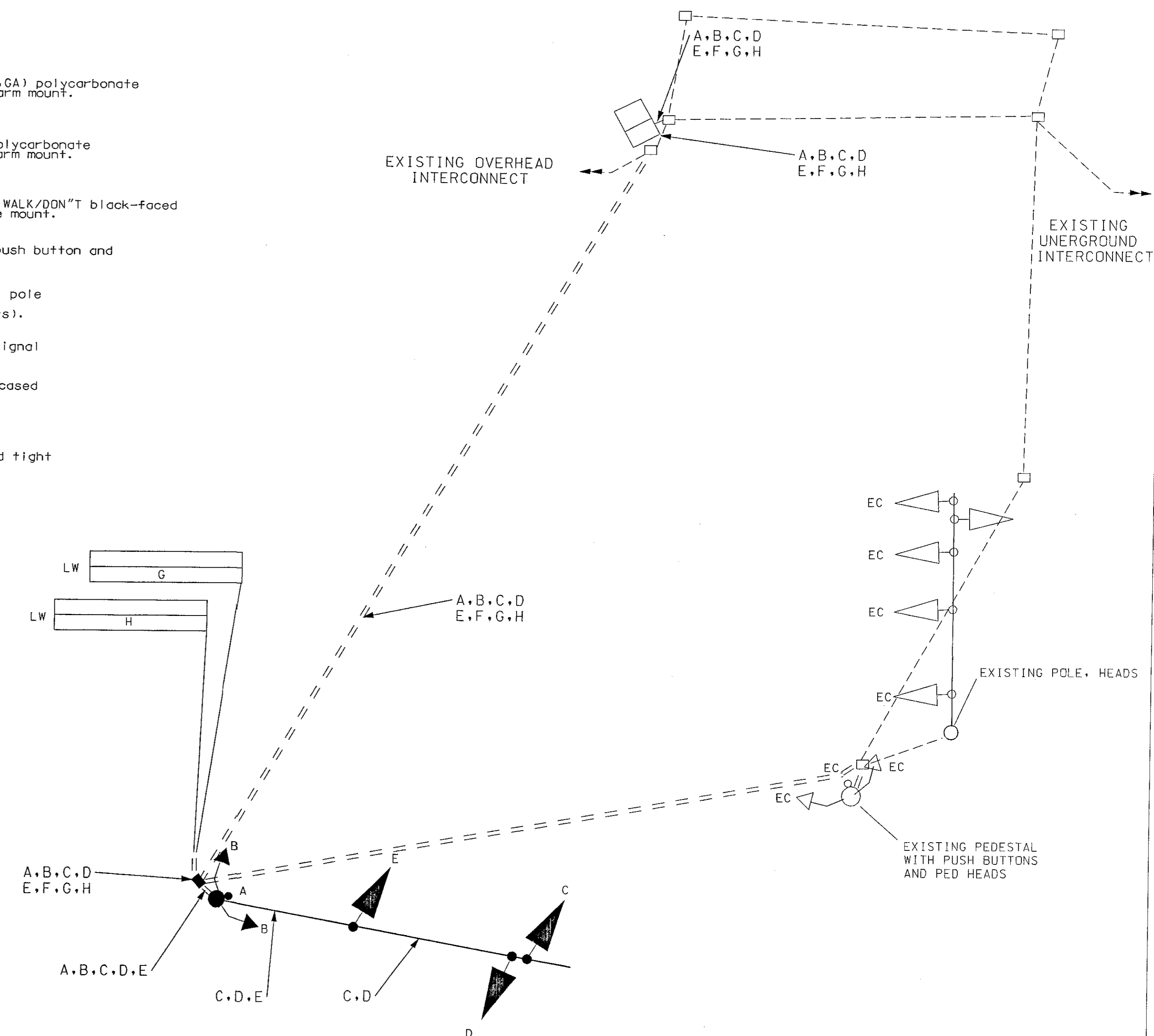
QUANTITY	UNITS	SPECIFICATION SECTION	DESCRIPTION
4	EA	814	12in. 1 way 5 section (R.Y.G.YA.GA) polycarbonate black-faced signal head - mast arm mount.
2	EA	814	12in. 1 way 3 section (R.Y.G) polycarbonate black-faced signal head - mast arm mount.
2	EA	814	12in. 1 way 2 section (symbolic WALK/DON'T WALK) aluminum signal head, pole mount.
2	EA	817	Furnish and install pedestrian push button and R10-4(1) sign.
1	EA	SP	Furnish and install 27 ft. steel pole with 70 ft. mast arm (Note: four 2" X 7/2" anchor bolts).
LS	LS	SP	Remove and dispose of existing signal equipment.
1120	LF		Furnish and install loop wire encased in 1/2" flexible tubing.
324	LF		Saw cut for loop detector.
10	LF		Furnish and install 1 inch liquid tight flexible non-metallic conduit for detector wire sleeve.

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QUANTITY	UNITS	SPECIFICATION SECTION	DESCRIPTION
LS	LS	104	Maintenance of Traffic.
LS	LS	814	Mobilization.
1	CY	205	Test pit excavation.
50	LF	556	Furnish and install 24 in. white heat applied thermoplastic pavement marking tape.
530	LF	556	Furnish and install 12 in. white heat applied thermoplastic pavement marking tape.
1	EA	556	Furnish and install heat applied white permanent preformed thermoplastic pavement marking arrows.
4	EA	556	Furnish and install heat applied white permanent preformed thermoplastic pavement marking letters.
5	CY	801	Furnish and install concrete for signal foundation.
1	EA	804	Furnish and install ground rod 3/4 in. diameter X 10 ft.
440	LF	805	Furnish and install 4 in. schedule 80 rigid PVC conduit (slotted).
10	LF	805	Furnish and install 3 in. schedule 80 rigid PVC conduit (trenched).
200	LF		Furnish and install 2-conductor electrical cable (no. 14 awg).
340	LF		Furnish and install 2-conductor electrical cable (no. 14 awg) aluminum shielded.
200	LF	810	Furnish and install 5-conductor electrical cable (No. 14 AWG).
760	LF	810	Furnish and install 7-conductor electrical cable (No. 14 AWG).
325	LF	810	Furnish and install No. 6 AWG standard bare copper ground wire.
1	EA	811	Furnish and install electrical handhole.
5	EA	813	Relocate overhead signs - for signals.

WIRING DIAGRAM



WIRING LEGEND

A	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) (FOR PUSHBUTTON)
B	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) (FOR PEDS)
C,D,E	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
F	NO. 6 AWG BARE COPPER WIRE
G,H	ELECTRICAL CABLE 2-CONDUCTOR (ALUMINUM SHIELD)
EC	EXISTING CABLE

WELLS & ASSOCIATES, LLC

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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 355 AND EAST MIDDLE LANE/PARK ROAD

DRAWN BY: CA & MA	F.A.P. NO. 1922	TS NO. TS-378C	SHEET NO. 2 OF 2
CHECK BY: CA & LES	S.H.A. NO. 1922	T.J.M.S. NO. E588	
SCALE: 1" = 20'	COUNTY: MONTGOMERY	LOC. MILE: 15035509.45	
DATE: 6-7-02			